



INVESTOR IN PEOPLE

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Newport
South Wales
NP10 8QQ

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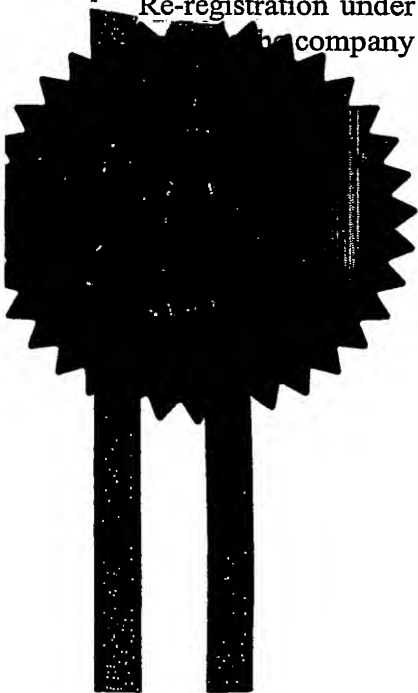
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Dated 18 February 2005





20AUG03 E831627-2 C84268
P01/7700 0.00-0319526.0

Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

THE PATENT OFFICE

18 AUG 2003

RULE 97
NEWPORT

The Patent Office

Cardiff Road
Newport
South Wales
NP10 5SQ

1. Your reference Medical Fan Guides

2. Patent application number
(The Patent Office will fill this part in)

18 AUG 2003

0319526.0

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Steven Phillip Corcoran, 22 Great Close, Cawood, Nr Selby, North Yorkshire, YO8 3UG

08695017001

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

4. Title of the invention

Medical Fan Guides

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Steven Phillip Corcoran, 22 Great Close, Cawood, Nr Selby, North Yorkshire, YO8 3UG

Patents ADP number (if you know it)

6. Priority. Complete this section if you are declaring priority from one or more earlier patent applications, filed in the last 12 months.

Country

Priority application number
(if you know it)

Date of filing
(day / month / year)

7. Divisionals, etc: Complete this section only if this application is a divisional application or resulted from an entitlement dispute (see note d)

Number of earlier UK application

Date of filing
(day / month / year)

8. Is a Patents Form 7/77 (Statement of inventorship and of right to grant of a patent) required in support of this request?

Answer YES if

- a) any applicant named in part 3 is not an inventor, or
- b) there is an inventor who is not named as an applicant, or
- c) any named applicant is a corporate body.

Otherwise answer NO (See note d)

No

9. Accompanying documents: A patent application must include a description of the invention. Not counting duplicates, please enter the number of pages of each item accompanying this form:

Continuation sheets of this form 2

Description

Claim(s)

Abstract

Drawing(s) 1

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for a preliminary examination and search (Patents Form 9/77)

Request for a substantive examination (Patents Form 10/77)

Any other documents (please specify)

11. I/we request the grant of a patent on the basis of this application.

Signature(s)

Date

17 Aug '03

12. Name, daytime telephone number and e-mail address, if any, of person to contact in the United Kingdom

01757 268 257

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Notes

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- If there is not enough space for all the relevant details on any part of this form, please continue on a separate sheet of paper and write "see continuation sheet" in the relevant part(s). Any continuation sheet should be attached to this form.
- If you have answered YES in part 8, a Patents Form 7/77 will need to be filed.
- Once you have filled in the form you must remember to sign and date it.
- Part 7 should only be completed when a divisional application is being made under section 15(1), or when an application is being made under section 8(3), 12(6) or 37(1) following an entitlement dispute. By completing part 7 you are requesting that this application takes the same filing date as an earlier UK application. If you want the new application to have the same priority date(s) as the earlier UK application, you should also complete part 6 with the priority details.

1. Title Of Invention

Fan Guides

2. Description of the Invention

The invention is that of a Fan guide system. The system is for use with items such as raiser seat commodes, transfer chair, static commodes in fact any device where a person is being assisted from sitting to standing or requires a means of support whilst completing a particular operation.

The system works via a series of Cams connectors located on a central shaft. The first cam connector is keyed to the shaft to stop rotation (see figure two (O)). The cam connectors have turn pegs (see figures two and three), which allow them to interlink.

A method of providing motion to the central shaft would be located as shown in figures four and five. The motion provider would place a moment on the shaft and cause the first cam connector to turn. The turn peg of the first cam connector that is located in the recess of the second cam connector, would rotate around, moving the engaged turn peg to the end of the recess of the second cam connector; thus causing the cam connector to rotate. The cam connector sections are joined in such a way as to allow rotation whilst yielding the required strength and rigidity that permits safe usage.

The cams are connected to the cam connectors in such a way as to allow them to be rotated with the cam connectors whilst yielding the required strength and rigidity that permits safe usage. Thus as the first cam connector moves, the second cam connector is engaged, therefore, the cam "fans" start to lift and at the end of the operating cycle, produce a channel and safe supportive space for occupants to carry out operations i.e. standing or the like; see figure 1A.

This idea is unique and especially for medical applications where any raiser seat chair exist, however none at present offer this feature or any feature that allows a channel of support to be given to the user.

Figure One – Main view of Cam connector and Cam located on a shaft

Figure Two – Exploded view of Cam connector principle

Figure Three – Principle of Cam Stack

Figure Four – Stack Motion Enabler

Figure Five – Stack Motion Enabler

A = Cam Connector

B = Cam Connector

C = Cam

D = Cam Connector

E = Cam

F = Turn Peg

G = Stack of Cam Connectors

H = Sprocket or power/motion transmission transfer component

I = E/motor or other such power exciter

J = Chain/Belt Drive or other power/motion transfer component or device

K = Sprocket or power/motion transmission transfer component

L = Cam Connector

M = Cam Connector

N = E/motor or other such power exciter
O = Cam Connector
P = Turn Peg
Q = Cam Connector
R = Turn Peg Recess
S = Turn Peg

100, 500

3. Drawing of the Invention

FIGURE 1A

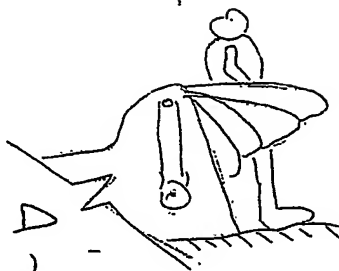


FIGURE ONE

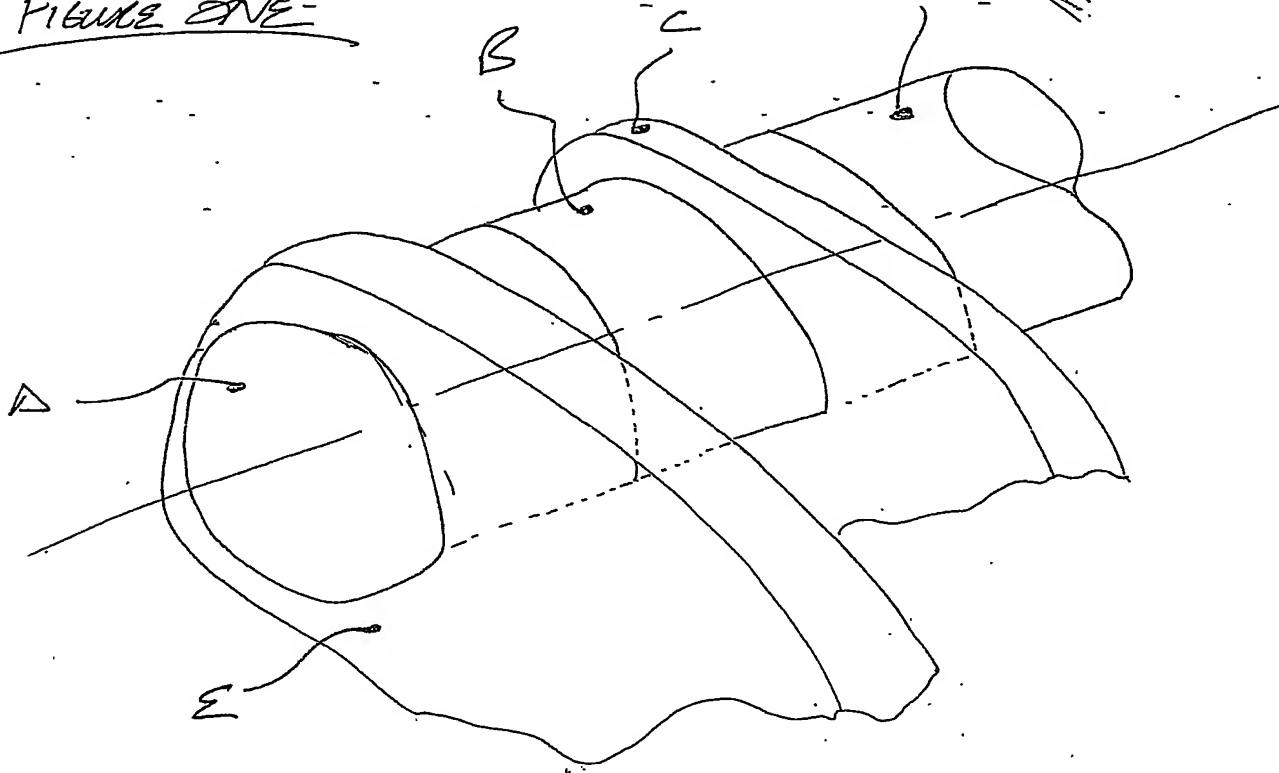


FIGURE TWO

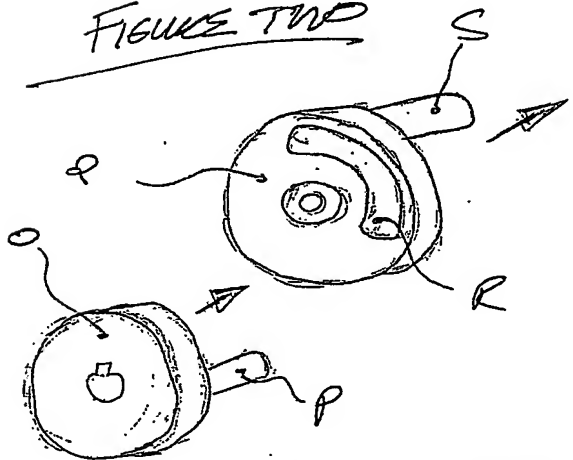


FIGURE THREE

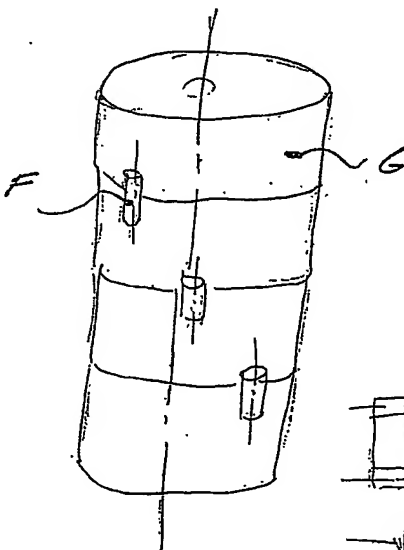


FIGURE FOUR

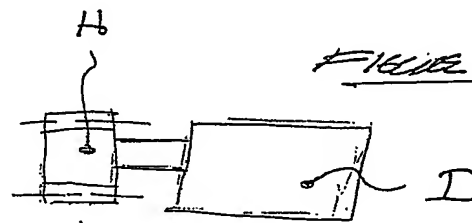


FIGURE FIVE

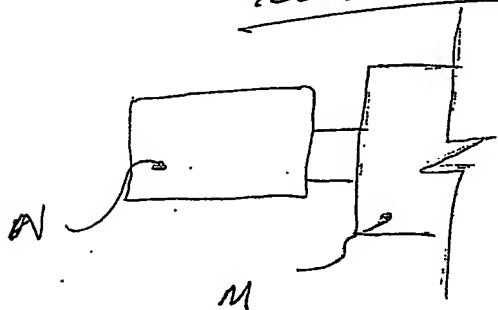


FIGURE SIX

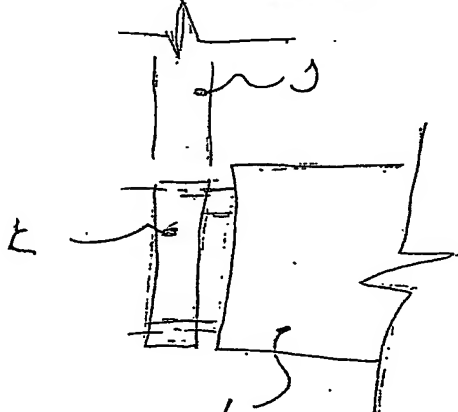


FIGURE 1A

3. Drawing of the Invention

FIGURE 2A

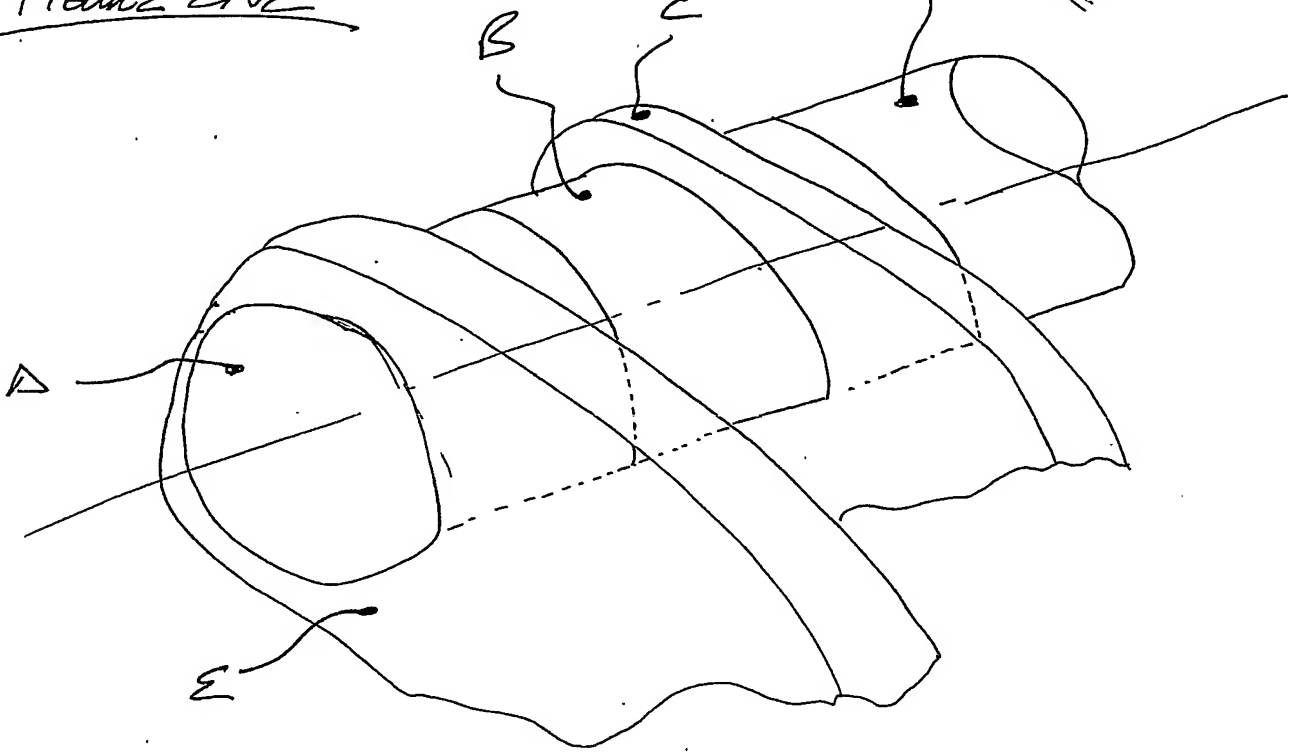


FIGURE 2B

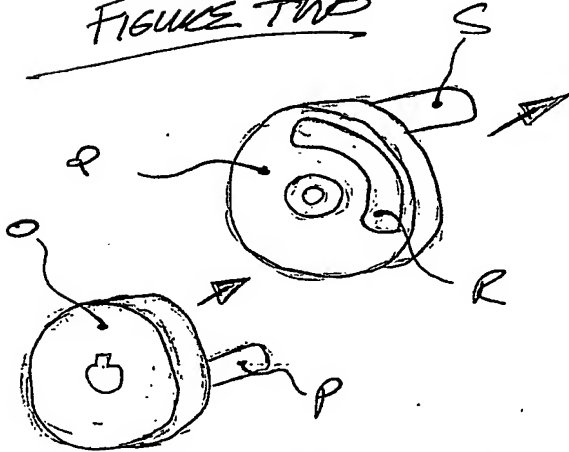


FIGURE 2C

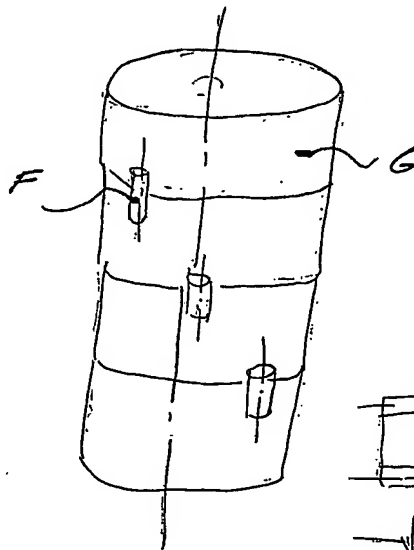


FIGURE 2D

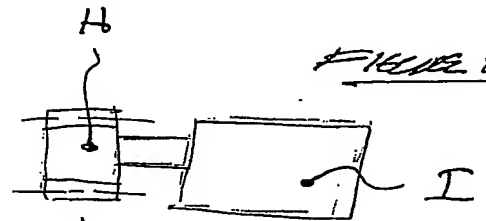
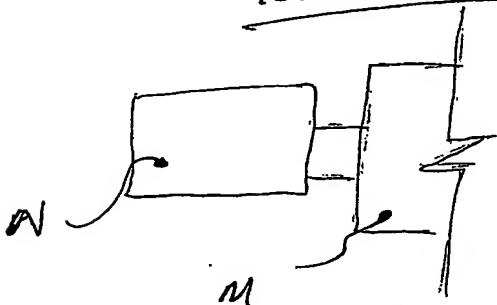


FIGURE 2E



1. Title Of Invention

Fan Guides

2. Description of the Invention

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J = Chain/Belt Drive or other power/motion transfer component or device

K = Sprocket or power/motion transmission transfer component

L = Cam Connector

M = Cam Connector

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